

IN THE CLAIMS

Please amend the claims as indicated below:

1. (Currently Amended): A local multipoint distribution service system having comprising an antenna for transmitting a signal of reused frequency within a specified range from the antenna, the antenna having multiple radiating antenna elements provided with the signal, the signal provided to each of the antenna elements being adjusted in phase and in amplitude of radiated signal across the radiating elements to mitigate radiation above the horizon, and the signal provided to each of the antenna elements being adjusted in phase and in amplitude of radiated signal therefrom to decrease attenuation in radiated power with distance from the antenna.

C1
Cont

2. (Currently Amended): A local multipoint distribution service system as recited in claim 1, further comprising: the signal each of the antenna elements being adjusted in phase and amplitude ~~of signal~~ across the antenna elements to mitigate nulls between lobes of combined radiated signals collectively from the antenna elements.

3. (Currently Amended): A local multipoint distribution service system as recited in claim 1 further comprising the signal each of the antenna elements being adjusted in phase and in amplitude ~~of signal~~ across the antenna elements to reduce excess signal power at near range.

4. (Currently Amended): A method of designing an antenna array for a local multipoint distribution service system for transmitting a signal of reused frequency within

a specified range from the antenna, the antenna having multiple radiating antenna elements, the method comprising the steps of:

adjusting the signal provided to each of the antenna elements in phase and in amplitude ~~of radiated signal~~ across the radiating elements to mitigate radiation above the horizon; and

adjusting the signal provided to each of the antenna elements in phase and in amplitude ~~of radiated signal~~ therefrom to decrease attenuation in radiated power with distance from the antenna.

C) Only
5. (Currently Amended): A method as recited in claim 4 4 further comprising the step of:

adjusting the signal provided to each of the antenna elements in phase and amplitude ~~of signal~~ across the antenna elements to mitigate nulls between lobes of combined radiated signals collectively from the antenna elements.

6. (Currently Amended): A method as recited in claim 4 4 further comprising the step of:

adjusting the signal provided to each of the antenna elements in phase and in amplitude ~~of signal~~ across the antenna elements to reduce excess signal power at near range.